

Quilcene River Watershed - WRIA 17

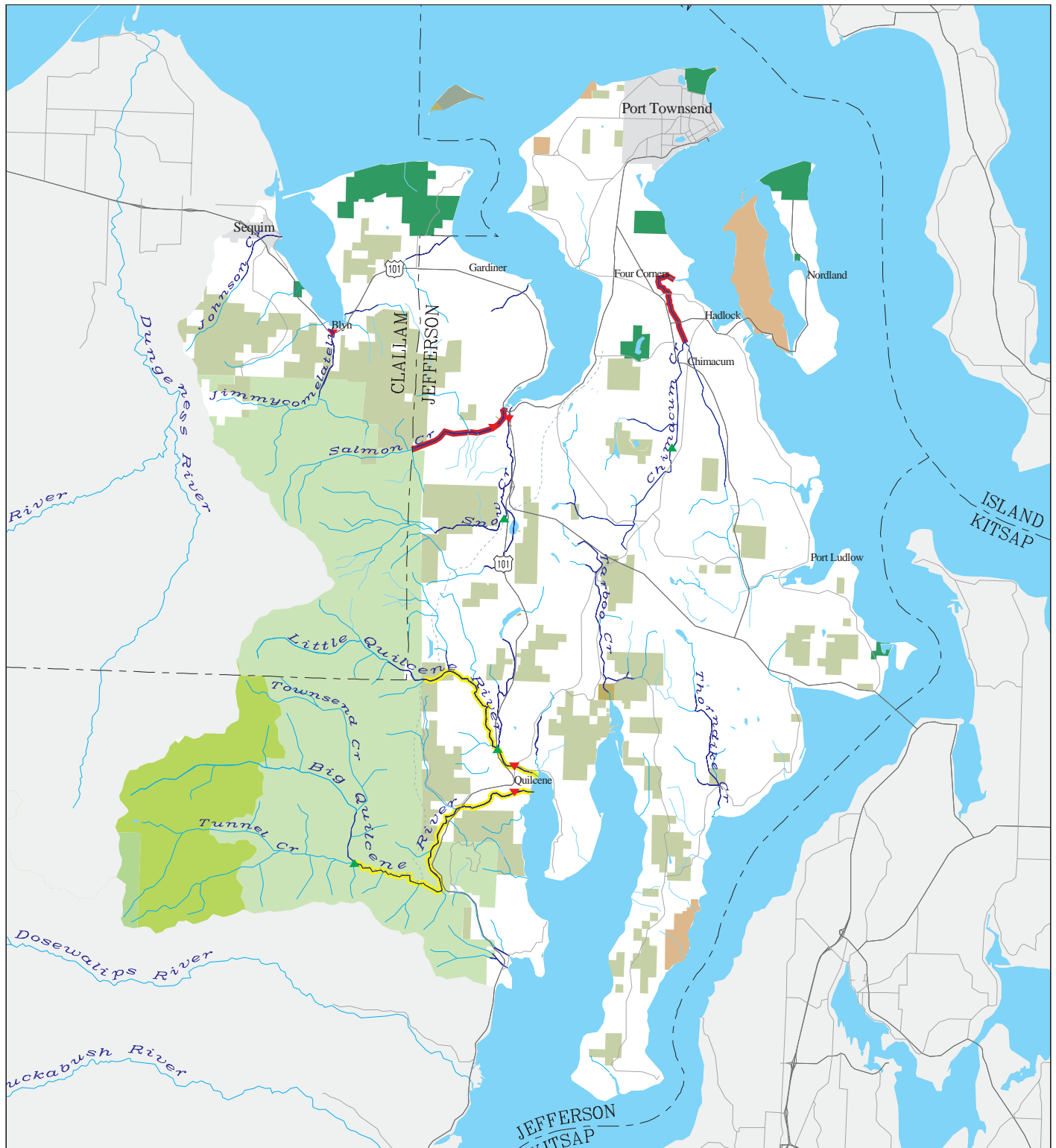
Surface diversions are primarily limited to the Big (17.9cfs) and Little Quilcene (4.1cfs) sub-basins due to the City of Port Townsend's diversions, which total 87 percent of all diversions. The next largest diversions within this WRIA occur in West Sequim Bay and the Ludlow Sub-basins. The sum of all consumptive surface water diversions is 63.6cfs. Irrigation is the second largest use of diverted surface water. An additional 287 water claims exist within this WRIA, totaling 45.5cfs.

Chimicum Creek has water rights totaling 2.9cfs, and claims totaling 6.6cfs, while the MMF for this creek averages only 5.05cfs between June and September. Thus, the stream may be dewatered during periods of low flow.

Salmon and Snow Creeks have surface water diversions totaling 1.6cfs and claims totaling 2.02, which is primarily for irrigation.

None of the streams identified meet or exceed instream flow recommendations developed by Department of Ecology and Washington Department of Fish and Wildlife. Thus, water rights should be reviewed for acquisitions in this basin. Because the City of Port Townsend's large diversion results in 87 percent of all diversions, acquisitions should be focused on low water year or seasonal leases or acquisitions, conservation efforts, and seeking alternative water supplies. It is apparently unlikely that the city would be interested in selling existing water. Providing storage of water during the high flow period to provide city water during the low flow period may be another option worth exploring.

Groundwater withdrawals and land use are increasing concerns within this WRIA. Increased withdrawals in impervious surfaces are expected to be significant in their effects on surface flows.



Stream Flow Prioritization: Quilcene/Snow WRIA 17

Water Resources Program

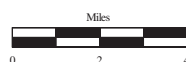


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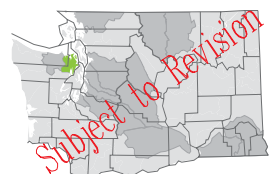
GIS Technical Services
12/13/02
sfp17-mpla

- US Forest Service
- US Wildlife Refuge
- US Parks/Recreation
- USFS Wilderness Area
- Bureau of Land Management
- US Dept. Defense/Energy
- Wa. Dept. of Fish & Wildlife
- Wa. Dept. of Natural Resources
- State School/Hospital/Prison
- Wa. Parks & Recreation

- City/County Watershed/Park
- Tribal Lands
- Incorporated City
- USGS Stream Flow Gage
- Ecology Stream Flow Gage
- Water Right Purchase



- Low priority stream
- Medium priority stream
- High priority stream
- Salmon/Bull Trout Spawning/Rearing area
- Other streams
- Canal/ditch/pipe
- County
- Highway
- Local Paved Roads



WDNR/Ecology - Major Public Lands 2002 100k
WDFW/Ecology - Hydrography, 2000 100k
Ecology - WRIA, 2002 24K
WDOT - Transportation, 2001 24K
WDFW - Stream Flow Prioritization 2002
WDFW - Spawning/Rearing Areas 2002 100k
USGS/Ecology - Stream Gages 1:100k